

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R
FOOD WEB (PRG) MODEL REQUIRED INPUTS																		
1	PARAMETER DESCRIPTION	Symbol	Units	General	PHY (2)	ZOO (3)	BIF (4)	BIC (5)	EIC (6)	SCL (7)	LSS (8)	CAR (9)	SMB (10)	NPM (11)				
2	Physical / Chemical Parameters																	
3	Octanol-water partition coefficient	KOW	kg/L	6.30	Kow - chemical specific		2.00E+06											
4	Organic carbon content of sediment	OCSS	unitless	0.017137207		Windward 2005												
5	Henry's Law constant	H	Pa.m3/mol	1	Value cancels out													
6	Mean water temperature	TW	C	13.69418928	ODEQ data - year round													
7	Concentration of suspended solids	CPW	kg/L	1.40E-05	Windward 2005 Peristaltic pump data near bottom only													
8	Concentration in water (filtered water)	CWT	ng/L	0.00000051	Windward 2005- column data only - chemical specific													
9	Bioavailable concentration in water	CWB	ng/g	0.00	model calculation- based on column water data and DOC		5.43899E-06											
10	Concentration in sediment solids	CST	ng/g	0.000276	SWAC -Windward - chemical specific													
11	Concentration in sediment porewater	CSD	ng/g	2.31E-08	model calculation													
12	Density of sediment OC	DOCS	kg/L	1	Previous model used value of 0.9- Susie says we should eliminate													
13																		
14																		
15	Bioavailable Fraction Parameters																	
16	Particulate OC concentration in water	XPOC	kg/L	4.0E-07	NOT USED IN MODEL													
17	POC proportionality constant	aPOC	unitless	0.35	NOT USED IN MODEL													
18	Dissolved OC concentration in water	XDOC	kg/L	1.4E-06	Peristaltic pump sample data from 3 integrated transects													
19	DOC proportionality constant	aDOC	unitless	0.028	NOT USED IN MODEL													
20	Bioavailable solute fraction	BSF	unitless	0.74														
21																		
22	General Biological Parameters																	
23	Uptake constant A for organism	UA	unitless	6.0E-05	Gobas and Arnott (2005)													
24	Uptake constant B for organism	UB	unitless	5.5	Amot & Gobas 2004, Gobas and Arnott 2005													
25	Dietary transfer efficiency constant A	EDA	unitless	3E-07	point estimate; Arnott & Gobas 2004													
26	Dietary transfer efficiency constant B	EDB	unitless	2.0	point estimate; Arnott & Gobas 2004													
27	NLOM-octanol proportionality constant	BETA	unitless	0.035	Amot & Gobas 2004, St dev Amot 2005													
28	NLOC-octanol proportionality constant	GAMMA	unitless	0.35	point estimate; Amot & Gobas 2005													
29																		
30	Organism-Specific Biological Parameters				PHY (2)	ZOO (3)	BIF (4)	BIC (5)	EIC (6)	SCL (7)	LSS (8)	CAR (9)	SMB (10)	NPM (11)				
31	Weight	WB	kg		1.70E-07	0.001257289	4.80E-06	0.043831184	0.019973073	0.803933281	2.504577005	0.352442399	0.598644014					
32	Lipid fraction of organism	VLB	fraction		0.001225109	0.010725222	0.022248037	0.014234069	0.007624181	0.041589067	0.073320748	0.093503651	0.050655622	0.063093672				
33	Water content fraction of organism	VWB	fraction		0.947163613	0.820237252	0.863274083	0.803522652	0.737757493	0.751342484	0.71364571	0.684286952	0.71357333	0.712772706				
34	Dietary absorption efficiency of lipid	eL	unitless		0.72	0.75	0.75	0.75	0.92	0.92	0.92	0.92	0.92	0.92				
35	Dietary absorption efficiency of NLOM	eN	unitless		0.72	0.75	0.75	0.75	0.60	0.60	0.60	0.60	0.60	0.60				
36	Dietary absorption efficiency of water	eW	unitless		0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25			
37	Fraction of pore water ventilated	FPW	unitless	0	0	0.052688338	0.069502945	0.027600468	0.044743776	0	0	0	0	0				
38	Filter feeder scavenging efficiency	SCV	unitless			1												
39																		
40	Organism-Specific Rate Constants																	
41	Growth rate constant	KG	1/d		0.093635253													
42	Metabolic rate constant	KM	1/d	0.02	0	0.007	0.007	0.007	0.007	0.007	0.007	0.007	0.007	0.007				
43																		
44					PHY (2)	ZOO (3)	BIF (4)	BIC (5)	EIC (6)	SCL (7)	LSS (8)	CAR (9)	SMB (10)	NPM (11)				
45	Tissue Concentration Outputs	CB	ug/kg	0.00000051	#NAME?	#NAME?	#NAME?	#NAME?	#NAME?	#NAME?	#NAME?	#NAME?	#NAME?	#NAME?				
46	Measured tissue concentration		ug/kg			234		70.4	687	887	2760	1050	868					
47	SPAF					#NAME?		#NAME?										
48	Percent difference					#NAME?		#NAME?										

Cell: E45
Comment: Forecast: CB phy

Cell: F45
Comment: Forecast: CB zoo

Cell: G45
Comment: Forecast: CB BIF

Cell: H45
Comment: Forecast: CB BIC

Cell: I45
Comment: Forecast: CB EIC

Cell: J45
Comment: Forecast: CB scl

Cell: K45
Comment: Forecast: CB Iss

Cell: L45
Comment: Forecast: CB car

Cell: M45
Comment: Forecast: CB smb

Cell: N45
Comment: Forecast: CB npm

	A PREY >	B	C	D	E	F	G	H	I	J	K	L
1	PREDATOR	(1) Sediment solids (particles)	(2) Phytoplankton	(3) Zooplankton	(4) Benthic invertebrate (filter feeder)	(5) Benthic invertebrate (consumer)	(6) Epibenthic invertebrate (consumer)	(7) Sculpin (forage)	(8) Largescale sucker (benthivore)	(9) Carp (omnivore)	(10) Smallmouth bass (smi piscv)	(11) Northern pikeminnow (lrg piscv)
2	(1) Sediment solids (particles)											
3	(2) Phytoplankton											
4	(3) Zooplankton		1.00									
5	(4) Benthic invertebrate (filter feeder)	0.779	0.221									
6	(5) Benthic invertebrate (consumer)	0.909	0.091									
7	(6) Epibenthic invertebrate (consumer)	0.0241	0.1137	0.175	0.219	0.467						
8	(7) Sculpin (forage)	0.03324	0	0.02738	0.3249	0.528	0.0866					
9	(8) Largescale sucker (benthivore)	0.1486	0.150	0.1960	0.073	0.268	0.165	0				
10	(9) Carp (omnivore)	0.0417	0.335	0	0.142	0.481	0	0	0			
11	(10) Smallmouth bass (smi piscv)	0	0	0	0	0.2439	0.170	0.586	0	0		
12	(11) Northern pikeminnow (lrg piscv)	0	0.0847	0	0.0558	0.355	0.295	0.209	0	0	0	

